

Patricia Diaz-Rodriguez

List of Publications by Year in descending order

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58
papers

1,146
citations

331259

21
h-index

454577

30
g-index

59
all docs

59
docs citations

59
times ranked

1697
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesenchymal Stem Cells in Homeostasis and Systemic Diseases: Hypothesis, Evidences, and Therapeutic Opportunities. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3738.	1.8	69
2	Advantages of neurofuzzy logic against conventional experimental design and statistical analysis in studying and developing direct compression formulations. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 38, 325-331.	1.9	55
3	A Three-Dimensional Chondrocyte-Macrophage Coculture System to Probe Inflammation in Experimental Osteoarthritis. <i>Tissue Engineering - Part A</i> , 2017, 23, 101-114.	1.6	53
4	Elucidating the role of graft compliance mismatch on intimal hyperplasia using an ex vivo organ culture model. <i>Acta Biomaterialia</i> , 2019, 89, 84-94.	4.1	53
5	Evaluation of the Osteoinductive Capacity of Polydopamine-Coated Poly(μ -caprolactone) Diacrylate Shape Memory Foams. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1220-1230.	2.6	44
6	Drug-Loaded Biomimetic Ceramics for Tissue Engineering. <i>Pharmaceutics</i> , 2018, 10, 272.	2.0	43
7	Characterization of β -lapachone and methylated β -cyclodextrin solid-state systems. <i>AAPS PharmSciTech</i> , 2007, 8, E68-E77.	1.5	42
8	Mineralized alginate hydrogels using marine carbonates for bone tissue engineering applications. <i>Carbohydrate Polymers</i> , 2018, 195, 235-242.	5.1	36
9	Micelle-nanogel platform for ferulic acid ocular delivery. <i>International Journal of Pharmaceutics</i> , 2020, 576, 118986.	2.6	33
10	Computer Modeling Assisted Design of Monodisperse PLGA Microspheres with Controlled Porosity Affords Zero Order Release of an Encapsulated Macromolecule for 3 Months. <i>Pharmaceutical Research</i> , 2014, 31, 2844-2856.	1.7	29
11	Effective genetic modification and differentiation of hMSCs upon controlled release of rAAV vectors using alginate/poloxamer composite systems. <i>International Journal of Pharmaceutics</i> , 2015, 496, 614-626.	2.6	29
12	A novel method for the production of core-shell microparticles by inverse gelation optimized with artificial intelligent tools. <i>International Journal of Pharmaceutics</i> , 2018, 538, 97-104.	2.6	28
13	New tools to design smart thermosensitive hydrogels for protein rectal delivery in IBD. <i>Materials Science and Engineering C</i> , 2020, 106, 110252.	3.8	26
14	Delimiting the knowledge space and the design space of nanostructured lipid carriers through Artificial Intelligence tools. <i>International Journal of Pharmaceutics</i> , 2018, 553, 522-530.	2.6	25
15	Incorporation of a silicon-based polymer to PEG-DA templated hydrogel scaffolds for bioactivity and osteoinductivity. <i>Acta Biomaterialia</i> , 2019, 99, 100-109.	4.1	24
16	In Vitro and Ex Vivo Evaluation of Nepafenac-Based Cyclodextrin Microparticles for Treatment of Eye Inflammation. <i>Nanomaterials</i> , 2020, 10, 709.	1.9	24
17	Smart design of intratumoral thermosensitive β -lapachone hydrogels by Artificial Neural Networks. <i>International Journal of Pharmaceutics</i> , 2012, 433, 112-118.	2.6	23
18	Artificial Intelligence Tools for Scaling Up of High Shear Wet Granulation Process. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 273-277.	1.6	23

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19	In vitro evaluation of anti-fibrotic effects of select cytokines for vocal fold scar treatment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1056-1067.	1.6	23
20	Influence of the carbon source on the properties of poly-(3)-hydroxybutyrate produced by <i>Paraburkholderia xenovorans</i> LB400 and its electrospun fibers. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 11-20.	3.6	23
21	Temperature-Sensitive Gels for Intratumoral Delivery of β -Lapachone: Effect of Cyclodextrins and Ethanol. <i>Scientific World Journal</i> , The, 2012, 2012, 1-8.	0.8	22
22	Current Stage of Marine Ceramic Grafts for 3D Bone Tissue Regeneration. <i>Marine Drugs</i> , 2019, 17, 471.	2.2	21
23	Impact of Select Sphorolipid Derivatives on Macrophage Polarization and Viability. <i>ACS Applied Bio Materials</i> , 2019, 2, 601-612.	2.3	21
24	Targeting joint inflammation for osteoarthritis management through stimulus-sensitive hyaluronic acid based intra-articular hydrogels. <i>Materials Science and Engineering C</i> , 2021, 128, 112254.	3.8	20
25	Key parameters in blood-surface interactions of 3D bioinspired ceramic materials. <i>Materials Science and Engineering C</i> , 2014, 41, 232-239.	3.8	19
26	Finding key nanoprecipitation variables for achieving uniform polymeric nanoparticles using neurofuzzy logic technology. <i>Drug Delivery and Translational Research</i> , 2018, 8, 1797-1806.	3.0	19
27	Bio-inspired porous SiC ceramics loaded with vancomycin for preventing MRSA infections. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 339-347.	1.7	18
28	Binary Graft Modification of Polypropylene for Anti-inflammatory Drug-Device Combo Products. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 1269-1277.	1.6	18
29	Anandamide-nanoformulation obtained by electrospraying for cardiovascular therapy. <i>International Journal of Pharmaceutics</i> , 2019, 566, 1-10.	2.6	17
30	In vitro evaluation of a basic fibroblast growth factor-containing hydrogel toward vocal fold lamina propria scar treatment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1258-1267.	1.6	16
31	Introduction of sacrificial bonds to hydrogels to increase defect tolerance during suturing of multilayer vascular grafts. <i>Acta Biomaterialia</i> , 2018, 69, 313-322.	4.1	15
32	Administration of the optimized β -Lapachone-poloxamer-cyclodextrin ternary system induces apoptosis, DNA damage and reduces tumor growth in a human breast adenocarcinoma xenograft mouse model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 497-504.	2.0	14
33	Tailored Hydrogels as Delivery Platforms for Conditioned Medium from Mesenchymal Stem Cells in a Model of Acute Colitis in Mice. <i>Pharmaceutics</i> , 2021, 13, 1127.	2.0	14
34	A Bioengineered In Vitro Osteoarthritis Model with Tunable Inflammatory Environments Indicates Context-Dependent Therapeutic Potential of Human Mesenchymal Stem Cells. <i>Regenerative Engineering and Translational Medicine</i> , 2019, 5, 297-307.	1.6	13
35	Spermidine Cross-Linked Hydrogels as a Controlled Release Biomimetic Approach for Cloxacillin. <i>Molecular Pharmaceutics</i> , 2014, 11, 2358-2371.	2.3	12
36	The synergistic effect of VEGF and biomorphic silicon carbides topography on in vivo angiogenesis and human bone marrow derived mesenchymal stem cell differentiation. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 045017.	1.7	12

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37	Toward zonally tailored scaffolds for osteochondral differentiation of synovial mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2019-2029.	1.6	11
38	Modeling of the Production of Lipid Microparticles Using PGSS [®] Technique. <i>Molecules</i> , 2020, 25, 4927.	1.7	11
39	Design of novel orotransmucosal vaccine-delivery platforms using artificial intelligence. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 159, 36-43.	2.0	11
40	Evaluation of human umbilical vein endothelial cells growth onto heparin-modified electrospun vascular grafts. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 567-575.	3.6	11
41	Refined assessment of the impact of cell shape on human mesenchymal stem cell differentiation in 3D contexts. <i>Acta Biomaterialia</i> , 2019, 87, 166-176.	4.1	10
42	Rifabutin-Loaded Nanostructured Lipid Carriers as a Tool in Oral Anti-Mycobacterial Treatment of Crohn's Disease. <i>Nanomaterials</i> , 2020, 10, 2138.	1.9	10
43	Amino-functionalized polymers by gamma radiation and their influence on macrophage polarization. <i>Reactive and Functional Polymers</i> , 2020, 151, 104568.	2.0	10
44	Effect of Poly(sophorolipid) Functionalization on Human Mesenchymal Stem Cell Osteogenesis and Immunomodulation. <i>ACS Applied Bio Materials</i> , 2019, 2, 118-126.	2.3	9
45	Tailor-made oligonucleotide-loaded lipid-polymer nanosystems designed for bone gene therapy. <i>Drug Delivery and Translational Research</i> , 2021, 11, 598-607.	3.0	9
46	Screening strategies for surface modification of lipid-polymer hybrid nanoparticles. <i>International Journal of Pharmaceutics</i> , 2022, 624, 121973.	2.6	9
47	Controlled release of indomethacin from alginate-polyoxamer-silicon carbide composites decrease in-vitro inflammation. <i>International Journal of Pharmaceutics</i> , 2015, 480, 92-100.	2.6	8
48	A canine <i>in vitro</i> model for evaluation of marrow-derived mesenchymal stromal cell-based bone scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2382-2393.	2.1	8
49	Collagen-Mimetic Proteins with Tunable Integrin Binding Sites for Vascular Graft Coatings. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2934-2942.	2.6	8
50	The three NADH dehydrogenases of <i>Pseudomonas aeruginosa</i> : Their roles in energy metabolism and links to virulence. <i>PLoS ONE</i> , 2021, 16, e0244142.	1.1	8
51	Initial <i>In Vitro</i> Development of a Potassium-Based Intra-Articular Injection for Osteoarthritis. <i>Tissue Engineering - Part A</i> , 2018, 24, 1390-1392.	1.6	7
52	Sublingual Boosting with A Novel Mucoadhesive Thermogelling Hydrogel Following Parenteral CAF01 Priming as A Strategy Against <i>Chlamydia Trachomatis</i> . <i>Advanced Healthcare Materials</i> , 2022, , 2102508.	3.9	7
53	A Traffic Light System to Maximize Carbohydrate Cryoprotectants' Effectivity in Nanostructured Lipid Carriers' Lyophilization. <i>Pharmaceutics</i> , 2021, 13, 1330.	2.0	6
54	Screening of critical variables in fabricating polycaprolactone nanoparticles using Neuro Fuzzy Logic. <i>International Journal of Pharmaceutics</i> , 2021, 601, 120558.	2.6	5

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55	Biomorphic Ceramics for Drug Delivery in Bone Tissue Regeneration. Current Pharmaceutical Design, 2017, 23, 3507-3514.	0.9	4
56	Tuning <i>Forkhead Box D3</i> overexpression to promote specific osteogenic differentiation of human embryonic stem cells while reducing pluripotency in a three-dimensional culture system. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 2256-2265.	1.3	3
57	Recent advances in solid lipid nanoparticles formulation and clinical applications. , 2020, , 213-247.		3
58	A Traffic Light System to Maximize Carbohydrate Cryoprotectants' Effectivity in Nanostructured Lipid Carriers' Lyophilization. Pharmaceutics, 2021, 13, .	2.0	1